PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 10003824W001	FOR FURTHER ACTI	ON	See Form PCT/IPEA/416			
International application No.	International filing date (day	/month/year)	Priority date (day/month/ye			
PCT/JP2004/017331	16.11.2	2004	01.12.2	003		
International Patent Classification (IPC) of Int.Cl. C09K11/06 (2006.01),	or national classification and H05B33/14 (2006.0	1 IPC 1)				
Applicant CANON KABUSHIKI KA	ISHA					
This report is the international part Authority under Article 35 and tr	ansmitted to the applicant a	eccording to Article	36.	nary Examining		
2. This REPORT consists of a total	of 4 sheets, in	cluding this cover	sheet.			
 This report is also accompanied t 	by ANNEXES, comprising	:				
u. 1 u.tota. v.	sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes						
sheets which subeyond the disc	closure in the international	application as filed	as indicated in item 4 of Bo	ox No. I and the		
Supplemental I						
b. a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
☑ Box No. I Basis of the	ne report			'		
Box No. II Priority	Priority					
Box No. III Non-estab	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1					
	Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain do	Certain documents cited					
	ertain defects in the international application					
Box No. VIII Certain of	bservations on the internation	onal application				
	Date of completion of the demand					
Date of submission of the demand 22.09.2005			23.02.2006	_		
Name and mailing address of the IPEA/JP		Authorized officer		4V 9279		
Japan Patent Office		YOKO WATANABE				
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/017331

Box No. I		Basis of the report
⊘ t	he inte	d to the language, this report is based on: ernational application in the language in which it was filed
		slation of the international application into, which is the language of a
1		ation furnished for the purposes of:
		international search (Rules 12.3(a) and 23.1(b))
		publication of the international application (Rule 12.4(a)) international preliminary examination (Rules 55.2(a) and/or 55.3(a))
	L] i	international prefiminally examination (Aules 55.2(a) alto of 55.5(a))
furni: and a	shed to are no	d to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" of annexed to this report):
	the int	ternational application as originally filed/furnished
	the de	scription:
	pages	as originally filed/furnished
	pages	
	pages	
	the cla	
	Nos.	as originally filed/furnished
	Nos.*	as amended (together with any statement) under Article 19
	Nos.*	
	Nos.*	
Г	the dr	awings:
	ts/figs	1.1.11. C1-1/C-mish of
	ts/figs	
	ts/figs	
		uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. 🗍	The a	amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
	Γ.	the sequence listing (specify):
		any table(s) related to sequence listing (specify):
4. []	made	report has been established as if (some of) the amendments annexed to this report and listed below had not been e, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box e 70.2(c)).
	<u> </u>	the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to sequence listing (specify):
* [fitem		olies, some or all of those sheets may be marked "superseded."
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International application No. PCT/JP2004/017331

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement 1. Statement 1,2,3,5,6,7,8,10-12 YES Novelty (N) Claims NO 4,9,13 Claims YES 3,5,7,11 Inventive step (IS) Claims 1,2,4,6,8-10,12,13 NO Claims YES Industrial applicability (IA) Claims 1-13 NO Claims

2. Citations and explanations(Rule 70.7)

D1:J.Chem.Soc., Dalton Trans., (1996), P.2889-2891

D2:J.Chem.Soc., Dalton Trans., (1999), P.1455-1459

D3:Inorganic Chemistry Commun., (2000), Vol.3, No.11, P.585-589

D4: J. Am. Chem. Soc., (1987), Vol. 109, No. 14, P. 4255-4260

D5: Inorganica Chimica Acta, (1994), Vol. 225, No. 1-2, P. 251-254

D6:JP 63-264692 A

D7:JP 2002-231454 A

(claim1)

The subject matter of claim 1 does not appear to involve an inventive step in view of the D1-6 cited in the ISR. D1-5 disclose some luminescent or fluorescent or phosphorescent materials having a structure represented by the formula(1). To use a luminescent or fluorescent or phosphorescent material as EL element layer(light-emitting layer)'s material were well-known in the technical field(see D6). Therefore, employing the luminescent or fluorescent or phosphorescent materials disclosed in D1-5 as light-emitting layer's material would have been easily conceived by the person skilled in the art.

(claim2, 6, 10)

The subject matter of claim 2,6 does not appear to involve an inventive step in view of the D1,2,6 cited in the ISR. D1,2 discloses some fluorescent or phosphorescent materials having a structure represented by the formula(2). To use a fluorescent or phosphorescent material as EL element layer(light-emitting layer)'s material were well-known in the technical field(see D6). Therefore, employing the fluorescent or phosphorescent materials disclosed in D1,2 as light-emitting layer's material would have been easily conceived by the person skilled in the art.

(claim3)

The subject matter of claim 3 is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art.

(claim4)

The subject matter of claim 4 does not meet the requirement of novelty. D7 disclose a luminescent material a trinuclear metal coordination compound having a partial structure represented by the formula (4) (see claim, [0057]-[0067]).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: No.V

And D7 also disclose the metal is selected from the group consisting of group 5 to 11 elements of the periodic table. So it disclose the metal involves Cu.

(claim 5, 7)

The subject matter of claim 5,7 is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art.

(claim8)

The subject matter of claim 8 does not appear to involve an inventive step in view of the D1-6 cited in the ISR. There is a probability that the materials disclosed in D1-5 have the distance between Cu atoms equal or less than 3.2 angstrom.

(claim9)

The subject matter of claim 9 does not meet the requirement of novelty. There is a probability that the materials disclosed in D7 have the distance between metal atoms equal or less than 3.2 angstrom.

(claim11)

The subject matter of claim 11 is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art.

(claim 12)

The subject matter of claim 12 does not appear to involve an inventive step in view of the D1-6 cited in the ISR. It is well-known that a luminescent layer contains a part of 100% of coordination compound.

(claim 13)

The subject matter of claim 13 does not meet the requirement of novelty in view of the D7. It is well-known that a luminescent layer contains a part of 100% of coordination compound.